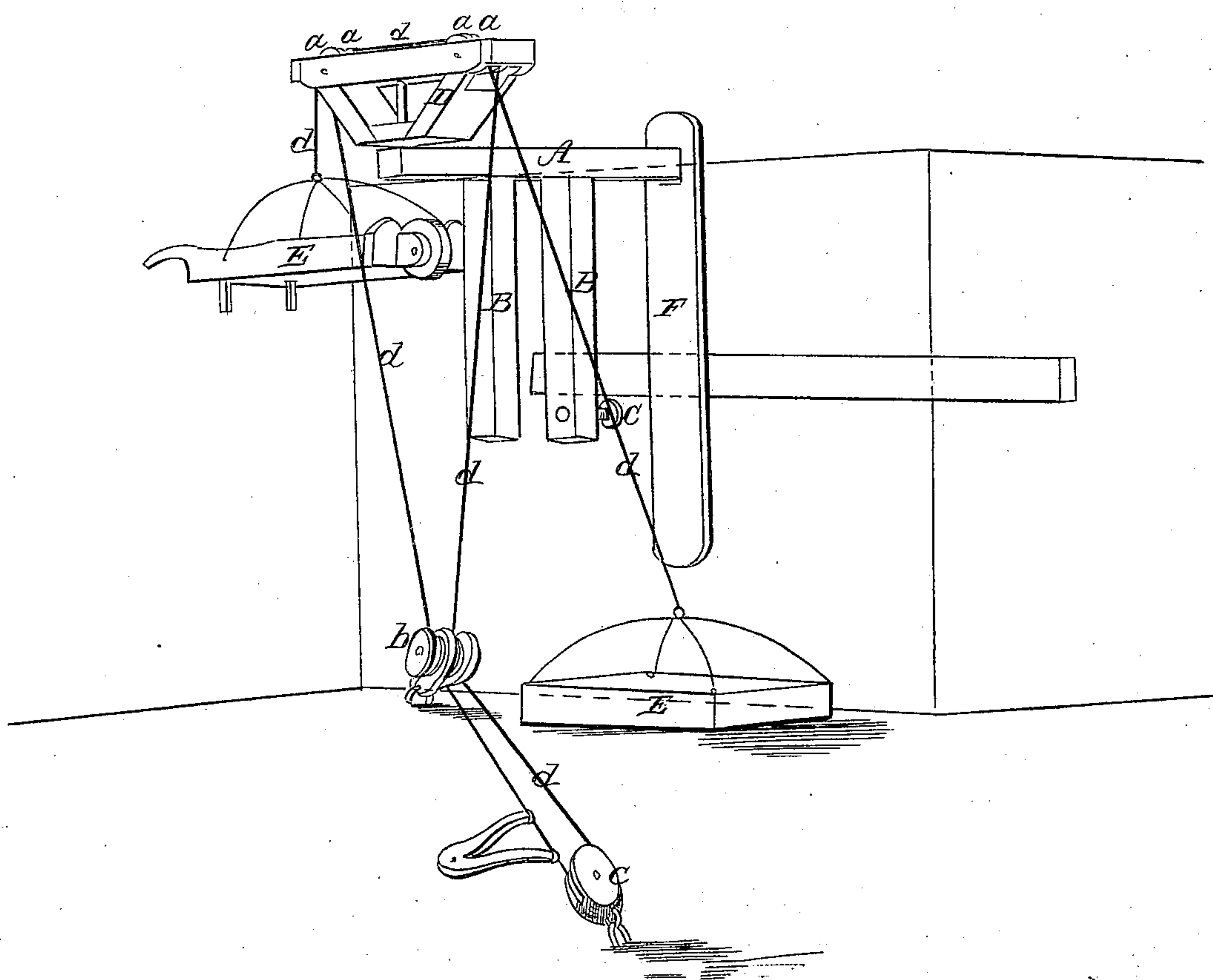


J. S. Lester,

Elevator.

Nº 92,847.

Patented Jul. 20. 1869.



Witnesses

R. A. Turner
Leopold Durr

Inventor.

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Attys.

United States Patent Office.

JAMES S. LESTER, OF KNOXVILLE, TENNESSEE, ASSIGNOR TO HIMSELF AND L. C. SHEPARD.

Letters Patent No. 92,847, dated July 20, 1869.

IMPROVEMENT IN ELEVATORS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JAMES S. LESTER, of Knoxville, in the county of Knox, and in the State of Tennessee, have invented certain new and useful Improvements in Elevating-Apparatus; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of an elevating-apparatus, for elevating brick, mortar, or other building-material, to the point where wanted in the erection of houses, &c.

In order to enable others skilled in the art to which my invention appertains, to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, which represent a perspective of my apparatus.

A represents a horizontal beam, laid across the wall of a house, and provided, on its under side, with two bars, B B, which extend downward, one on each side of the wall, thus bracing the beam A and holding it in position.

One of the bars B is provided with one or more temper or set-screws, C, so as to conform to walls of different thickness.

On the outer end of the beam A is a frame, D, pivoted in its centre, so as to turn in any direction desired.

The frame D is at each end provided with two pulleys, *a a*, and at the foot of the wall is placed a pulley-block, *b*, with two pulleys.

At any convenient distance from the wall is placed another block, *c*, with one pulley.

Through the pulley-blocks *b* and *c*, and over the pulleys *a a*, runs a rope, *d*, arranged in such a manner that as one end is running up the other is running down.

To the ends of the rope *d* are attached receptacles

E E, suitable for elevating whatever building-material is required.

The elevator may be operated either by a crank or by a horse attached in some suitable manner to the rope *d*, so that the horse will raise one side going one way and the other side returning, lowering the opposite side each time.

The weight of the frame D and the hoisting-apparatus on the outer end of the beam A is counterbalanced by a lever, F, slipped on the inner end of the beam A, and attached to a joist in the building.

The elevator, thus constructed, can readily be raised as the building progresses.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The adjustable elevating-apparatus, so constructed that when one receptacle moves up another moves down, substantially as herein set forth.

2. The adjustable elevating-apparatus, so constructed that when the hoisting-rope is moved in one direction one end is raised, and when moved in the opposite direction the other end is raised, lowering the opposite side each time, substantially as herein set forth.

3. The combination of the horizontal beam A, brace-bars B B, pivoted frame D, and counterbalancing-lever F, all substantially as and for the purposes herein set forth.

4. In combination with the pivoted frame D, on the outer end of the horizontal beam A, the pulleys *a a*, pulley-blocks *b c*, rope *d*, and receptacles E E, all constructed and arranged to operate substantially in the manner and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 11th day of May, 1869.

JAMES S. LESTER.

Witnesses:

J. W. QUERTIMUS,
SAM. BRANDON.